

Abstract

A scanning head for an optical position-measuring system is disclosed, comprising a receiver grating (1.7), formed of
5 photosensitive areas (3), for the scanning of locally
intensity-modulated light of differing wavelengths. The
receiver grating (1.7) is formed from a semiconductor layer
stack (1.2) of a doped p-layer (1.2.1), an intrinsic i-layer
(1.2.2) and a doped n-layer (1.2.3). The individual
10 photosensitive areas (3) have a first doped layer (1.2.1) and
at least a part of the intrinsic layer (1.2.2) in common and
are electrically separated from one another by means of
interruptions in the second doped layer (1.2.3).